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TITLE: Method and system for implementing wireless data transfers between a selected group of mobile computing devices

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REFERENCE-FIGURES: 1

ABSTRACT:

A wireless communication method for selective transmission of data among a group of mobile computing devices. A user's device is used to broadcast a query to determine a group of mobile computing devices within communications range. A list of resulting mobile computing devices is then presented to the user through the device's interface. The user selects at least one of the mobile computing devices from the list for a data transfer. The data transfer is then performed to the selected at least one mobile computing device. Upon completion of the transfer, a confirmation is presented to the user. In this manner, wireless data transfers can be performed with a number of different mobile computing devices within communications range. The user can select a number of mobile computing devices from the list and perform the data transfer to each of the selected number in a single step. The data transfer is performed using a wireless RF communications link. The wireless RF communications link can be compatible with a version of the Bluetooth specification.

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Application Filing Date - APD (1):
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Summary of Invention Paragraph - BSTX (4):

[0002] Personal Information Devices include the class of computers, personal digital assistants and electronic organizers that tend both to be physically smaller than conventional computers and to have more limited hardware and data processing capabilities. PIDs include, for example, products sold by **Palm,** Inc. of Santa Clara, Calif., under such trademark as Pilot, and Pilot 1000, Pilot 5000, PalmPilot, PalmPilot Personal, PalmPilot Professional, **Palm, and Palm** III, **Palm** V, **Palm** VII, as well as other products sold under such trade names as WorkPad, Franklin Quest, and Franklin Convey.

Detail Description Paragraph - DETX (30):

[0052] FIG. 3 shows a diagram illustrating the layers of the Bluetooth (RF) protocol stack 60 in accordance with one embodiment of the present invention. An RF protocol stack is implemented at each end of the connection endpoints of an RF link. For example, a PID 12 and a telephone 14 could each implement an RF stack to enable a link. The required layers of the RF link using the Bluetooth system are the Baseband layer 62, the Link Manager Protocol Layer (LMP) 64, the Logical Link Control and Adaptation Layer 68, RFCOMM Layer 70, Service Discovery Protocol Layer 72, and **Object Exchange Protocol (OBEX)** layer 74.

Detail Description Paragraph - DETX (33):

[0055] The IrDA protocol also specifies a number of optional protocol layers, these protocol layers being TINY TP90, IrOBEX 92, IrCOMM 94 and IrLAN 96. TINY TP (Tiny Transport Protocol) 90 adds per-channel flow control to keep traffic over the link 20 moving smoothly. IrOBEX (Infrared **Object Exchange Protocol)** 92 provides for the easy transfer of files and other data objected between the IrDA devices at each end of the applications that use serial and parallel communications using IrDA without change. IrLAN (Infrared **Object Exchange Protocol)** 92 provides for the easy transfer of files and other data objects between the IrDA devices at each end of the link 20. IRCOMM 94 is a serial and parallel communications using IrDA without change. IrLAN (Infrared Local Area Networks) 96 enables walk-up infrared LAN access.